



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CALIBRATION LABORATORY
A Nationally Accredited Laboratory

737 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

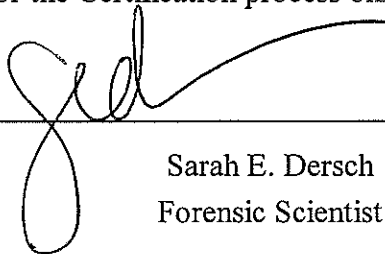
INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010570
CERTIFICATION DATE: September 24, 2014
DATE RECERTIFICATION DUE: March 23, 2015

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L 0.150 ± 0.007 g/210 L
0.080 ± 0.004 g/210 L 0.250 ± 0.007 g/210 L

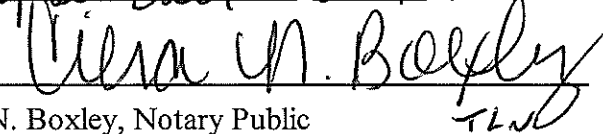
The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.



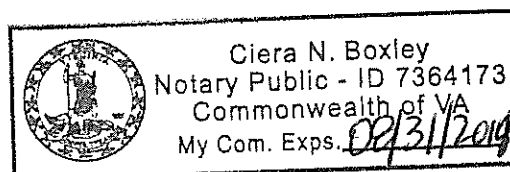
Sarah E. Dersch
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 20th day of September, 2014 by Sarah E. Dersch


Ciera N. Boxley, Notary Public

My commission expires: August 31, 2018



Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
9/24/2013 To 9/24/2014

DBH
SW

Instrument Serial Number:	010570	As of 24-Sep-14
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Maintenance	Certification	Technician	
Date	Date	Initials	Remarks
24-Sep-14	24-Sep-14	DBH (21250)	CERTIFIED.
10-Apr-14	10-Apr-14	HMS (18910)	CERTIFIED
08-Jan-14	29-Oct-13	DBH (21250)	REPLACED UPS BACK-UP BATTERY.
29-Oct-13	29-Oct-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.

DB/H
Jed

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010570** Worksheet Start Date **9/24/2014**
Location **DFS-Central**
Address **737 N 5th St Richmond VA 23219**
DFS Technician **Donald Hall** License No. **21250**

☒ Laboratory

☐ On-Site

Site Specification: No detrimental environmental conditions exist. ☐

Instrument Barometer (mm HG) **764** Reference Barometer (mm HG) **765**
Reference Barometer(RB)Serial # **009109** RB Calibration Due **7/28/2015**

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.305
0.300	0.301	0.291	0.310	Sample 2	0.304
Precision		sample min	sample max	Sample 3	0.304
0.001		0.304	0.305		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.102
0.100	0.100	0.097	0.103	Sample 2	0.102
Precision		sample min	sample max	Sample 3	0.102
0		0.102	0.102		

Dry gas standard Lot No. (with tank no.) **AG227501-12**

☐ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:



Notes:

Instrument Serial Number

010570

Certification Date

9/24/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.252
0.250	0.251	0.243	0.258	Sample 2	0.252
Precision		sample min	sample max	Sample 3	0.251
0.001		0.251	0.252		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.152
0.150	0.151	0.146	0.155	Sample 2	0.152
Precision		sample min	sample max	Sample 3	0.152
0		0.152	0.152		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.080
0.080	0.080	0.077	0.083	Sample 2	0.081
Precision		sample min	sample max	Sample 3	0.080
0.001		0.080	0.081		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.020
0.020	0.020	0.017	0.023	Sample 2	0.020
Precision		sample min	sample max	Sample 3	0.020
0		0.020	0.020		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Donald B Hall

Date

9/24/14

Issuing Analyst

gud
TLN

Date

9/25/14

DBH
FW

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010570 Test Number: 2076
Test Date: 09/24/2014 Test Time: 13:51 EDT

Technician Initials: DBH

Dry Gas Target: 0.251

Lot Number: 07713250I4-01 Exp Date: 05/01/2015

Tank Pressure: 463 psi Barometric Pressure: 763 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:52
BLK	0.000	13:53
CHK	0.252	13:53
BLK	0.000	13:55
CHK	0.252	13:56
BLK	0.000	13:57
CHK	0.251	13:58
BLK	0.000	13:59

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

DBH
W

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010570 Test Number: 2077
Test Date: 09/24/2014 Test Time: 14:02 EDT

Technician Initials: DBH

Dry Gas Target: 0.151

Lot Number: 07713150I3-02 Exp Date: 05/01/2015

Tank Pressure: 889 psi Barometric Pressure: 763 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:02
BLK	0.000	14:03
CHK	0.152	14:04
BLK	0.000	14:05
CHK	0.152	14:06
BLK	0.000	14:07
CHK	0.152	14:08
BLK	0.000	14:09

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

DBH
JW

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010570 Test Number: 2078
Test Date: 09/24/2014 Test Time: 14:13 EDT

Technician Initials: DBH

Dry Gas Target: 0.080

Lot Number: 34413080I2-02 Exp Date: 01/01/2016

Tank Pressure: 458 psi Barometric Pressure: 763 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:13
BLK	0.000	14:14
CHK	0.080	14:15
BLK	0.000	14:16
CHK	0.081	14:17
BLK	0.000	14:18
CHK	0.080	14:19
BLK	0.000	14:20

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

DBH
JL

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010570 Test Number: 2079
Test Date: 09/24/2014 Test Time: 14:23 EDT

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 07713020I1-03 Exp Date: 05/01/2015

Tank Pressure: 664 psi Barometric Pressure: 763 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:24
BLK	0.000	14:24
CHK	0.020	14:25
BLK	0.000	14:26
CHK	0.020	14:27
BLK	0.000	14:28
CHK	0.020	14:29
BLK	0.000	14:31

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

DB/H
Suk

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010570 Test Number: 2080

Test Date: 09/24/2014 Test Time: 14:34 EDT

Dry Gas Target: 0.301

Lot Number: AG421201-02 Exp Date: 07/31/2016

Tank Pressure: 463 psi Barometric Pressure: 763 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:35
CHK	0.305	14:36
BLK	0.000	14:38
CHK	0.304	14:39
BLK	0.000	14:40
CHK	0.304	14:41

Test Status: *Success*

Calibration CRC: 5626B5CC

DBH
Jed

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010570 Test Number: 2081

Test Date: 09/24/2014 Test Time: 14:51 EDT

Dry Gas Target: 0.100

Lot Number: AG227501-12 Exp Date: 10/01/2014

Tank Pressure: 75 psi Barometric Pressure: 763 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:51
CHK	0.102	14:52
BLK	0.000	14:54
CHK	0.102	14:55
BLK	0.000	14:56
CHK	0.102	14:57

Test Status: *Success*

Calibration CRC: 5626B5CC

INSTRUMENT, TEST,

DFS

HALL, DONALD, B

DFS Central Lab

21250

10/01/2014

09/24/2014

010570

09/24/2014

15:26 EDT

0.00



IntoxNet MIS Report

Report Generated 24 Sep 2014 at 16:09

DBH
Ful

Test Results

Instrument Serial Number 010570

Test # 002082 Subject Test

Test Location 1 Department of
Test Date 24 Sep 2014

Test Location 2 Forensic Science
Test Time 15:19
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name HALL
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B

Card Serial Number 121250

License Number 21250

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 24 Sep 2014 End Time 15:27

Result Time 15:26

Result Date 24 Sep 2014 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 15:19

Data Type BLK

Sample Value 0.000

Sample Time 15:20

Data Type CHK

Sample Value 0.102

Sample Time 15:21

Data Type BLK

Sample Value 0.000

Sample Time 15:22

Data Type SUBJ

Sample Value 0.000

Sample Time 15:23

Data Type BLK

Sample Value 0.000

Sample Time 15:24

Data Type SUBJ

Sample Value 0.000

Sample Time 15:26

Data Type BLK

Sample Value 0.000

Sample Time 15:27

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG227501-12

Standard Expiration Date 10/01/2014

Tank Pressure 75

Barometric Pressure 763 mmHg

Blow Sample Number 1 Blow Duration 3.62 sec

Blow Volume 2125 cc End-of-Blow Time 15:23

Blow Sample Number 2 Blow Duration 4.30 sec

Blow Volume 2283 cc End-of-Blow Time 15:26

Tamper Evident Stamp 40537cad

Test Status Code 0

Test Status Success